

Playing with Launchpad API using launchpadlib

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Agenda

- What is Launchpad?
- Components of Launchpad?
- Installation
- Overview
- API
- launchpadlib in action
- References

What is Launchpad?

- Software development portal like Sourceforge, GNU Savannah, Assembla
- Free Software. Released under Affero General Public License
- Features like Bug tracking, Code hosting, Translations, Blueprints, Answers, Packaging etc
- Written using Zope Framework

Components of Launchpad

- Bazaar – Code Hosting
- Malone – Bug Tracker
- Rosetta – Translations
- Blueprints – Collaborative design
- Answers – Knowledge Base
- Registry – People, projects, teams information
- Soyuz – Packaging

Important Projects using Launchpad

- Inkscape
- Mailman
- MySQL
- Drizzle

Launchpadlib Installation

- On Debian/Ubuntu

```
sudo apt-get install python-launchpadlib
```

- Using easy_install

```
sudo easy_install launchpadlib
```

Launchpad API

- RESTful web service
- launchpadlib client library
- Uses OAuth for authentication
- Provides proper API for various accessing various components

Overview of using launchpadlib

- Login / Signing Requests
- Fetching Data
- Editing Data

Login / Signing Requests

- Anonymous access
- Authenticated Access

Anonymous Access

- `from launchpadlib.launchpad import Launchpad`
- `cache_dir = /home/manish/.launchpad/testing`
- `lp = Launchpad.login_anonymously('testing', 'production', cache_dir)`

First parameter is client name, second is installation type and third is the cache dir where it caches all fetched data

- `HTTPError (401 Unauthorized)` is raised when the user tries to change any value
- `HTTPError (401 Unauthorized)` is raised when the user tries to check his/her user profile

Authenticated Access

- `from launchpadlib.launchpad import Launchpad`
- `cache_dir = /home/manish/.launchpad/testing`
- `lp = Launchpad.login_with('testing', 'production', cache_dir)`

You can change the data if you authenticate with Launchpad

Fetching Data

- `unaward = lp.bugs[632276]`
- `unaward.title`
`u'Wrap UnAwardTrophy'`
- `unaward.owner.display_name`
`u'Manish Sinha'`
- `unaward.id`
`632276`

Editing Data

- › `unaward = lp.bugs[632276]`
- › `unaward.unsubscribe()`
- › `x=unaward.subscribe(lp.me)`
- › `x`

```
{u'resource_type_link':  
u'https://api.launchpad.net/1.0/#bug_subscription', u'bug_link':  
u'https://api.launchpad.net/1.0/bugs/632276', u'http_etag':  
u'"b75eaa767315064c21dae3f5859b8077ea876a40-  
ef55edafcc10a3474ac06bedabf1498f5ab4b4fb"', u'subscribed_by_link':  
u'https://api.launchpad.net/1.0/~manishsinha', u'self_link':  
u'https://api.launchpad.net/1.0/bugs/632276/+subscription/manishsinha',  
u'date_created': u'2010-09-09T15:18:34.746458+00:00', u'person_link':  
u'https://api.launchpad.net/1.0/~manishsinha'}
```

Launchpad top-level Objects

- Collection like bugs, people, projects etc
- Entries like bug, branch, project, project_group, language etc
- Complete API at

<https://edge.launchpad.net/+apidoc/devel.html>

Getting Help

- Ip_attributes - Fields
- Ip_collections – Associated Collections
- Ip_entries – Associated Entries
- Ip_operations - Methods

References

- <http://help.launchpad.net/API>
- <http://edge.launchpad.net/+apidoc>
- <http://help.launchpad.net/API/launchpadlib>

Any questions?

Contact me:
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